

WHAT WE CLAIM IS:

1. A holographic viewing device in which a computer-generated hologram constructed as a transmission Fourier transform hologram is fitted in a frame member,
5 wherein at least one of phase information and amplitude information recorded in a certain predetermined peripheral site of the computer-generated hologram relative to an input pattern reconstructible from the computer-generated hologram is removed.
- 10 2. The holographic viewing device according to claim 1, wherein the computer-generated hologram comprises a phase hologram, and the phase information recorded in a certain predetermined peripheral site of the computer-generated hologram relative to an input pattern
15 reconstructible from the computer-generated hologram is removed.
- 20 3. The holographic viewing device according to claim 1, wherein the computer-generated hologram has a phase distribution multivalued to four or more levels.
- 25 4. The holographic viewing device according to claim 1, wherein the computer-generated hologram is in a rectangular matrix form in which a number of minuscule computer-generated hologram elements having identical characteristics are set together in parallel, and a minuscule computer-generated hologram element is removed from any one of pre-determined four corners of the computer-generated hologram.
5. The holographic viewing device according to

any one of claims 1 to 4, wherein input image patterns recorded in computer-generated holograms fitted in right and left frames of the viewing device have binocular parallax.

5 6. A computer-generated hologram for a
holographic viewing device, which is constructed as a
transmission Fourier transform hologram for the
holographic viewing device, wherein at least one of phase
information and amplitude information recorded in a
10 certain predetermined peripheral site of the computer-
generated hologram relative to an input pattern
reconstructible from the computer-generated hologram is
removed.

15 7. The computer-generated hologram according to
claim 6, wherein the computer-generated hologram comprises
a phase hologram, and the phase information recorded in a
certain predetermined peripheral site of the computer-
generated hologram relative to an input pattern
reconstructible from the computer-generated hologram is
20 removed.

8. The computer-generated hologram according to
claim 7, wherein a phase distribution is multivalued to
four or more levels.

9. The computer-generated hologram according to
25 any one of claims 6 to 8, wherein the computer-generated
hologram is in a rectangular matrix form in which a number
of minuscule computer-generated hologram elements having
identical characteristics are set together in parallel,

and a minuscule computer-generated hologram element is removed from any one of predetermined four corners of the computer-generated hologram.